

L8 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS  
 AN 1995:347076 BIOSIS  
 DN PREV199598361376  
 TI The effect of a probiotic on faecal and liver lipid classes in rats.  
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 SO British Journal of Nutrition, (1995) Vol. 73, No. 5, pp. 701-710.  
 ISSN: 0007-1145.  
 DT Article  
 LA English  
 AB The effect of a probiotic composed of **Bacillus**, *Lactobacillus*,  
*Streptococcus*, *Saccharomyces* and *Candida* species (each at 10-7-8  
 colony-forming units (cfu)/g rice bran), given at a level of 150 g/kg  
 diet  
 for 6 weeks, on lipid metabolism was examined in the faeces, serum and  
 liver of male rats. Liver weight decreased 35% in the rats fed on a  
 high-fat, high-**cholesterol** diet containing the probiotic. Total  
**cholesterol** concentration in the serum was significantly lower in  
 the probiotic group than in the control group throughout the experimental  
 period in rats fed on the high-fat, high-**cholesterol** diet, and  
**HDL-cholesterol** concentration was significantly higher  
 (P lt 0.05) in the probiotic group than in the control group which was  
 fed  
 for the 6 week experimental period on a basal diet. The serum VLDL + IDL  
 +  
 LDL **cholesterol** concentrations in the probiotic groups were  
 reduced compared with those of the corresponding control groups. The  
 probiotic groups fed on the high-fat, high-**cholesterol** diet and  
 the basal diet had lower hepatic **cholesterol** concentrations than  
 did the corresponding control groups (P lt 0.05). Hydroxymethylglutaryl  
 coenzyme A reductase (NADPH) (EC 1.1.1.34) activity in the liver was  
 lower  
 in rats fed on the high-fat, high-**cholesterol** diet with the  
 probiotic. The neutral and acidic steroid concentrations in faeces were  
 higher in the probiotic group than in the control group fed on the  
 high-fat, high-**cholesterol** diet. *Escherichia coli* decreased and  
*Bifidobacterium* and *Eubacterium* increased in the faecal microflora of  
 rats  
 fed on the dietary probiotic. *Lactobacillus* in the probiotic groups was  
 higher than that in the control groups. The present study shows that the  
 probiotic promotes *Bifidobacterium* and *Eubacterium* in the faecal  
 microflora, and reduces **cholesterol** levels in the serum and  
 liver of rats.

(FILE 'HOME' ENTERED AT 07:25:06 ON 05 SEP 2001)

FILE 'BIOSIS' ENTERED AT 07:25:15 ON 05 SEP 2001

L1 64237 S BACILLUS  
L2 56 S SPOROLACTOBACILLUS  
L3 143 S (L1 OR L2) AND ?CHOLESTEROL?  
L4 106 S (L1 OR L2) (S) ?CHOLESTEROL?  
L5 4 S L2 AND P44  
L6 11 S L1 AND LAEVOLACTICUS

FILE 'STNGUIDE' ENTERED AT 07:28:37 ON 05 SEP 2001

L7 0 S L3 AND HDL

FILE 'BIOSIS' ENTERED AT 07:36:57 ON 05 SEP 2001

L8 3 S L3 AND HDL

FILE 'STNGUIDE' ENTERED AT 07:39:48 ON 05 SEP 2001

L9 0 S CHOLIC ACID

FILE 'BIOSIS' ENTERED AT 07:43:03 ON 05 SEP 2001

L10 4258 S CHOLIC ACID  
L11 1336 S L10 AND ?CHOLESTEROL?  
L12 467 S (CALCIUM CITRATE) OR (POTASSIUM GLUCONATE) OR (MAGNESIUM  
CITR  
L13 2 S L12 AND ?CHOLESTEROL?  
L14 1276 S L10 (L) ?CHOLESTEROL?  
L15 1063 S L10 (S) ?CHOLESTEROL?  
L16 78 S L14 AND HDL  
L17 73 S L10 (L) ?CHOLESTEROL? (L) HDL

FILE 'STNGUIDE' ENTERED AT 07:51:35 ON 05 SEP 2001

FILE 'BIOSIS' ENTERED AT 07:53:52 ON 05 SEP 2001

L18 25 S (INCREASE OR IMPROVE) (L) HDL (L) ?CHOLESTEROL? (L) (CHOLIC  
A

FILE 'STNGUIDE' ENTERED AT 07:58:19 ON 05 SEP 2001

FILE 'BIOSIS' ENTERED AT 08:10:18 ON 05 SEP 2001

L19 0 S CHOLIC ACID SEQUESTERING AGENT  
L20 0 S CHOLIC ACID COMPLEXATION AGENT  
L21 88 S CHOLIC ACID (S) (COMPLEX? OR SEQUESTER?)  
L22 2 S L21 (L) ?CHOLESTEROL? (L) HDL

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USPT,PGPB,JPAB,EPAB,DWPI	17 same (potassium with salt)	45	<a href="#">L12</a>
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USPT,PGPB,JPAB,EPAB,DWPI	17 same (calcium near citrate)	2	<a href="#">L8</a>
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USPT,PGPB,JPAB,EPAB,DWPI	((complexation or sequester\$3) with cholic)	5	<a href="#">L6</a>
USPT,PGPB,JPAB,EPAB,DWPI	((complexation or sequestering) with cholic)	0	<a href="#">L5</a>
USPT,PGPB,JPAB,EPAB,DWPI	((complex\$5 or sequester\$3) with cholic) and (metal with salt)	10	<a href="#">L4</a>
USPT,PGPB,JPAB,EPAB,DWPI	(complex\$5 or sequester\$3) with cholic	42	<a href="#">L3</a>
USPT,PGPB,JPAB,EPAB,DWPI	(cholic near acid) same (bile near acid) same cholesterol	89	<a href="#">L2</a>
USPT,PGPB,JPAB,EPAB,DWPI	(Cholic near acid) same (bile near acid)	388	<a href="#">L1</a>